



July 2, 2018

Marlene H. Dortch  
Secretary  
Federal Communications Commission  
455 12<sup>th</sup> St. SW  
Washington DC 20554

RE: **EX PARTE** in Advanced Methods to Target and Eliminate Unlawful  
Robocalls, CG Docket No. 17-59

Dear Ms. Dortch:

On June 29, 2018, Jonathan Rosenberg, Vice President and CTO, Collaboration, and the undersigned met telephonically with the following staff members to discuss the implementation of the SHAKEN/STIR<sup>1</sup> technologies: Eric Burger, Chief Technologist, Office of Strategic Planning and Policy Analysis and Tracy Klees of that Office; Wireline Bureau staff Sherwin Siy; and Public Safety and Homeland Security Bureau staff Ken Carlberg and John B. Adams.

Cisco noted that with its focus on enabling enterprise, Cisco is somewhat less central to the implementation of SHAKEN/STIR technologies than vendors that provide carrier technology for consumer services. However, through our recent acquisition of Broadsoft, Cisco does sell white label business solutions to carriers who in turn use them to create offers for their enterprise customers. As a result, the company does have a roadmap for development of technology supporting STIR, that includes a trajectory for the delivery of capabilities in the 2019-2020

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<sup>1</sup> Secure Telephone Identity Revisited (STIR) protocols are defined by the Internet Engineering Task Force, and the Signature-based Handling of Asserted information using toKENs (SHAKEN) ) specifications are defined by the ATIS/SIP Forum IP-NNI Task Force. These technologies will allow individual calls to be authoritatively and cryptographically signed, certificated and verified, making it much more difficult to send unlawful calls to consumers using spoofed numbers.

timeframe. Cisco stressed that our development is very much in response to customer requests.

Based on questions from staff, Cisco noted that we have not yet seen, nor would we expect to see at this stage, requests from large enterprises to implement STIR. We also noted that STIR capabilities associated with contact center calling would generally be a function of telecommunications service that the contact center uses, as opposed to a capability within the contact center itself.

Respectfully submitted,

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